

What is claimed is:

- Sub
A1
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1. A biodegradable recycled polyester resin, which is obtained by a process including the step of carrying out a reaction of a recycled aromatic polyester (A) with an aliphatic polyester (B) having a number-average molecular weight of 3,000 to 300,000 in a reaction ratio (weight ratio) of (A)/(B) = 95/5 to 5/95, thereby affording biodegradability to the recycled aromatic polyester (A).
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2. A biodegradable recycled polyester resin according to claim 1, wherein the aliphatic polyester (B) is obtained from an aliphatic dicarboxylic acid component having 2 to 6 carbon atoms and an aliphatic glycol component having 2 to 4 carbon atoms.
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A2
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3. A biodegradable recycled polyester resin according to claim 1, wherein the aliphatic polyester (B) is obtained by a process including the step of carrying out ring-opening copolymerization of a cyclic acid anhydride (C) and a cyclic ether (D), wherein the cyclic acid anhydride (C) includes succinic anhydride as a major component, and wherein the cyclic ether (D) includes ethylene oxide as a major component.
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4. A biodegradable recycled polyester resin according to claim 2, wherein the aliphatic polyester (B) is obtained by a process including the step of carrying out ring-opening copolymerization of a cyclic acid anhydride (C) and a cyclic ether (D), wherein the cyclic acid anhydride (C) includes succinic anhydride as a major component, and wherein the cyclic ether (D) includes ethylene oxide as a major component.

Sub. 3
5. A biodegradable recycled polyester resin according to claim 1, which has a structure such that the recycled aromatic polyester (A) and the aliphatic polyester (B) are arranged in a block form.

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6. A biodegradable recycled polyester resin according to claim 2, which has a structure such that the recycled aromatic polyester (A) and the aliphatic polyester (B) are arranged in a block form.

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Sub. 4
7. A biodegradable recycled polyester resin according to claim 3, which has a structure such that the recycled aromatic polyester (A) and the aliphatic polyester (B) are arranged in a block form.

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8. A biodegradable recycled polyester resin according to claim 4, which has a structure such that the recycled aromatic polyester (A) and the aliphatic polyester (B) are arranged in a block form.

Sub. 5
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9. A production process for a biodegradable recycled polyester resin, which comprises the step of carrying out a melting reaction of a recycled aromatic polyester (A) with an aliphatic polyester (B) in a heated state in a reaction ratio (weight ratio) of (A)/(B) = 95/5 to 5/95, wherein the aliphatic polyester (B) has a number-average molecular weight of 3,000 to 300,000.